Response to Comments Received NTP Fact Sheet: Radioactive Materials Shipping Regulations

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Reviewer/Organization	Comment	Response to Comment
ATR Institute, UNM	4 th Page: Under Emergency Preparedness, perhaps you	Agree.
	should mention that the National Response Center is	
	staffed by the U.S. Coast Guard.	
EM-76, DOE-HQ	1 st Page, 2 nd Paragraph: IATA is a carrier association like	Agree. IATA deleted from text.
	ATA – the standards are established by ICAO.	
	1 st Page, 3 rd Column, 2 nd Paragraph: Hazardous material,	True, but HMTA was first major legislation to establish
	including RAM, was regulated prior to HMTA –	broad hazmat rules.
	E&ODA Act of 1908.	
	Same Paragraph, Last Sentence: Change "involved in the	Done.
	handling" to "who perform handling".	Done.
	2 nd Page, First Paragraph: Insert "(OSHA)".	Done.
	2 nd Page, 4 th Paragraph, 1 st Sentence: Change "The level of radioactivity" to "The required label".	Agree.
	4 th Page, 2 nd Paragraph: Delete "certain" from first	Agree. Change missed in editing; will be corrected next
	sentence.	revision.
	In the next sentence, add Part 171.16.	Done.
	4 th Page, 3 rd Column, 1 st Paragraph: Change "40 years" to "50 years".	Done in response to earlier comment.

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DOE Pittsburgh Naval Reactors Office	1 st Page, 3 rd Column, 3 rd Paragraph: Restructure the paragraph: "NRC regulates the nuclear material transport operations of NRC licensees, primarily commercial shippers of radioactive materials. For example, NRC establishes safeguards and security regulations to minimize the possibility of theft, diversion, or attack on certain shipments. NRC also establishes design and performance standards for casks used by all shippers that carry materials with higher levels of radioactivity."	Disagree. Believe current text is clear.
	All NRC requirements are detailed in the <i>Code of Federal Regulations</i> , <i>Title 10</i> ."	This is stated elsewhere in fact sheet.
	2 nd Page, 3 rd Paragraph: Reword the first sentence: "Packaging standards required by DOT and NRC regulations for radioactive material are the primary means to protect people and the environment from radioactive material in transport."	Reworded: "Radioactive materials packaging standards are the primary means to protect people and the environment during radioactive materials transport."
	2 nd Page, 4 th Paragraph: Insert a new second sentence: "These are referred to as hazard communication requirements."	Modified first sentence to include "hazard communication".
	In the next sentence, insert "an emergency response" before "identification number".	Agree.
	2 nd Page, 5 th Paragraph, 1 st Sentence: Insert "for packaging purposes" after "The level of radioactivity is".	Sentence has been reworded based on EM-76 comment.
	Replace "measured radiation levels of a package's contents" with "the specific radioactive material characteristics called ???????? (illegible).	Comment illegible.

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DOE/PNR (cont'd.)	3 rd Page, 2 nd Column, 1 st Paragraph: Not all HRCQ are spent nuclear fuel. Insert "high-level waste" after "(e.g.,". Delete "spent nuclear fuel" within the parentheses.	Modified wording to include other materials.
	3 rd Page, 2 nd Column, 4 th Paragraph, 1 st Sentence: Reword: "Shipping papers provided by the shipper to the carrier provide more details about the characteristics than the label."	Modified wording to include shipper/carrier relationship.
	3 rd Page, 2 nd Column, 5 th Paragraph: What about rail? In the second sentence, replace "Drivers" with "Carriers" and replace "in the vehicle" with "readily available".	Agree.
	4 th Page, 2 nd Column, 1 st Paragraph: Insert "365 days a year" after "hours a day". Delete "spectrometry".	Agree.
	4 th Page, 2 nd Column, 2 nd Paragraph: Replace "(including DOE)" with "and DOE".	Agree.
	Delete the last sentence of this paragraph.	Agrag
	4 th Page, 3 rd Column, 1 st Paragraph, 3 rd Sentence: Delete	Agree.
	"vehicles carrying".	Reworded sentence.
	4 th Page, 3 rd Column, Last Paragraph: Delete "proper vehicle inspections" and insert "in those regulations" after "and rigorous training".	Agree (inspection is part of regulatory enforcement).
Connecticut DEP/CRCPD	More domestic than international, however, I believe that	Agree. A separate fact sheet on International Regulations exists.
	would be more appropriate.	CAISIS.
	My information needs are more specific.	This sheet was meant to deliver very basic information.
Iowa Department of Public	As with most Federal documents, State coverage and	Coverage of SNF/HLW is included under "Prior

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Health	requirements are not covered, especially Agreement	Notification" section. Wording modified to include
	States. Some have notification requirements, etc. With State DOT getting into the Working Group, loads can be detained.	HRCQ.
Association of American Railroads	General: While it is not mentioned, all North American shipments by rail which are interchanged between carriers, must meet Association of American Railroads interchange rules. Equipment in interchange must meet AAR Manual of Standards and Recommended Practice.	Text modified.
	I am generally interested in more detailed information about rail. While this does me little good, it provides good background for a novice.	Fact sheet intended to provide basic information.
Nevada State Rail Safety Program Managers	General: Although not mode specific, the product has a decidedly "highway" viewpoint, mostly a product of the language. Product uses terms such as "driver," "in the cab of the vehicle," "drivers of vehicles," and "As with any traffic accident".	Modified wording where possible. Changed "traffic accident" to "transportation accident".
	Need to provide a table listing each mode, Highway, Rail, Marine, Air, etc., and the appropriate CFR with the regulations for that mode.	Fact sheet meant to provide basic information. Will consider this comment for future rewrites.
Contract Traffic Managers Association	General: Not enough detail. May be appropriate for a general audience, but not nearly detailed enough for DOE contractors or first responders.	Basic information like CFR numbers are provided in the fact sheet to give those individuals who need more detailed information a starting point.
	1 st Page, 1 st Paragraph: Air transport standards are established by the <i>International</i> Air Transport	Corrected.
CTMA (cont'd.)	Association and the International Civil Aviation	

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	Organization. Insert "International" before "Air Transport".	
	1st Page, 4th Paragraph: The statement "DOT regulations also specify training needed by drivers and others involved in the handling and transport of radioactive materials" is misleading. It leads the audience to conclude some special training is required. In fact, the training requirements for shipments of radioactive materials is no different than the training for other hazardous materials. 49 CFR 172.704 covers the requirements for training. It is required that hazmat employees be given function-specific training and safety training and the training should cover the type of hazardous material being transported or handled, but we must be careful not to lead general audiences to a conclusion that individuals involved in the normal, everyday transportation of radioactive materials are somehow better trained than individuals transporting any other class of hazardous materials.	Changed "radioactive" to "hazardous".
CTMA (cont'd.)	2 nd Page, Photos: While the packages shown are shown to indicate the various types of packaging, suggest the Type A package show the hazard class labels oriented "on point." Also look carefully at the corrosive label. It appears to have the "8" on the label. This would not be correct, since the Class "7" label would be the primary hazard and the class "8" would indicate a subsidiary hazard. There also does not appear to be any label on the Type B package. The trailer for the Type B package also seems to have a tarp or something which is unsecured on the floor of the trailer. Use the best picture(s) you can	Replaced photo to show label on-point and to remove corrosive label. Type B photo replaced.

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	obtain and make certain there are no glaring DOT violations in the pictures.	
	3 rd Page, Labels: Need to change the information concerning the Activity Line. Must now give the level of radioactivity in appropriate SI units. Expressing activity solely in terms of curies not allowed since April 1, 1997. (See 49 CFR 172.403(g)(2).)	Corrected.
	3 rd Page, Routing: See 49 CFR 173.457. Either the carrier or the offeror of the shipment determines the preferred route to be used.	Added "offeror" to text.
DOE Nevada Opns. Office	1 st Page, 2 nd Paragraph: Change ICAO reference to IATA.	IATA is a carrier association. ICAO develops standards and regulations.
	Add FAA.	Reference added.
DOE NV Contractor	1 st Page: Insert "hazardous and" before "radioactive materials" in the caption.	The fact sheet is focused on radioactive materials.
	1 st Page, 3 rd Column, 2 nd Paragraph, 3 rd Sentence: Insert "placarding" before "loading".	Done.
	1 st Page, 3 rd Column, Last Paragraph: Correct spacing.	Corrected.
	2 nd Page, 3 rd Paragraph: Correct spacing.	Corrected.
	In second sentence, insert "material" before identification number.	Wording changed in response to earlier comment.
	3 rd Page, 2 nd Paragraph: Delete first "the". Same comment for 2 nd Paragraph under Shipping Papers.	Done.
DOE NV Contractor	4 th Page, Photo: Use arrows, as picture not clear.	Printed copies will have improved clarity.

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(cont'd.)	General: 40 CFR not addressed, but EPA was included; also OSHA 29CFR.	49 CFR and 10 CFR listed because DOT and NRC have primary responsibility.
State of Oregon	General: Don't use acronyms in the captions. People may just glance at the caption and may not know the acronym.	Space limitations in many captions restrict spelling out complete names. All acronyms used in captions in this product are spelled out in the text on the same page and can easily be found by the reader.
	1 st Page, 1 st Column: There should be some mention that certain shipments – like nuclear weapons components – are not required to meet all DOT/NRC regulations, such as placarding.	Reference added.
	2 nd Page: Rewrite caption. The fact that more stringent packaging requirements are required for more hazardous materials is more important than packaging type is based on activity, type, etc.	Second sentence dropped from caption.
	2 nd Page, 4 th Paragraph, Last Sentence: Find a different word than "excepted." Perhaps "not required to"?	Changed word to "excluded".
	3 rd Page, Graphics: Label shows TBq; caption says curies.	Corrected.
	3 rd Page, Caption: Is this still the case, or only for non-fissile?	Clarified by adding non-fissile regulatory reference.
	3 rd Page, 2 nd Column, Last Paragraph: Who receives this written plan?	Reworded to indicate NRC receives the plan.
State of Oregon (cont'd.)	3 rd Page, 3 rd Column, 2 nd and 3 rd Paragraphs: All of a	This section addresses routing. Other sections are

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	sudden, the text mentions rail and then oceanic. It raises the question whether all previous information is applicable to rail as well (and barge/ship).	applicable to all modes of transport.
	3 rd Page, 3 rd Column, 5 th Paragraph: Does DOE notify for HRCQ and spent fuel?	Wording added to indicate NRC is in process of changing the regulatory requirement to include Tribes under the notification rule.
	4 th Page, 2 nd Column, 4 th Line: Will a lay person understand this term?	"Spectrometry" deleted from text.
	4 th Page, 2 nd Column, 2 nd Paragraph: What are typical or minimum insurance requirements?	Wording changed to indicate carriers are required to maintain at least \$5 million in liability coverage.
	4 th Page, 3 rd Column, 5 th Line: Replace "40 years" with "50 years."	Agree.
Council of State	Pg. 3: Reference to DOE's policy on notifying Tribes:	Wording added to indicate NRC is in process of changing
Governments, Mid-West	Perhaps mention DOE's attempts to gain NRC approval	the regulatory requirement to include Tribes under the
	of the policy? Otherwise, the reader might conclude that DOE is violating NRC regulations by notifying the Tribes.	notification rule.
	Also FAX is not an acronym; NTP listing on back says	
	"HomePage," whereas others say "Website."	Agree.
PA Emergency	General: I think these concisely written, subject specific	No response required.
Management Agency	handouts are excellent. I have often used them when I	110 response required.
(PEMA)	teach radiological courses in Pennsylvania.	
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	Reviewer's copy of poor quality.	Resulted from copying from xeroxed copy.
State of New Mexico	Last Page, 5 th Paragraph, 1 st Sentence: Under <u>Emergency</u>	Agree.
	Preparedness, add the word "the" after "are" and before	
State of New Mexico	"first". Without "the" it could sound like a directive –	
(cont'd.)	first they are to respond to radioactive accidents, rather	

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	than they are the first responders on the scene.	
Western Governors'	1 st Page, 1 st Paragraph: The fact sheet discusses that	Added wording to explain that DOE Orders are written
Association	"DOE administers its shipments according to a series of	requirements. Don't believe it is necessary to include
	Departmental Orders and other internal guidance." It is	specific numbers at this time. The "Program Manager's
	recommended that the fact sheet list at least the key	Guide" is not a regulatory requirement.
	Orders and guidance which apply; you may also want to	
	mention how the "Program Manager's Guide to	
	Transport Planning" is provided for use.	

NOTE:

• "No Comment" responses received from: Indiana SEMA, DOE, Richland Operations Office, Texas State Energy Conservation Office, Pantex Program, State of Colorado, and the IAFC.